

FOLIO

THE UNIVERSITY OF ALBERTA STAFF BULLETIN

EDMONTON, ALBERTA

1 SEPTEMBER 1977

THE EDMONTON ART GALLERY AND THE UNIVERSITY

The following information has been received from the Edmonton Art Gallery and is specially addressed to the University community.

The Edmonton Art Gallery is not just a "city" gallery; it is a non-profit organization with individual and corporate membership of over 1,000. Although it is subsidized by the three levels of government, it is the individuals and groups actively involved with the Gallery that make it work. The University has particularly close ties with the Gallery.

The Gallery's Board of Governors has thirty or so elected members, four of whom are members of the University staff. The President of the Board for 1977-78 is G.L. Kulak, Professor of Civil Engineering. William Lakey, Professor of Surgery and Director of the Division of Urology, Charles Moore, Associate Dean of the Faculty of Arts, and Bernard Schwartz, Professor of Elementary Education, are also members.

The Department of Art and Design, in particular, has a close relationship with the Gallery. Students in that Department are often invited to the Gallery for lectures and discussions relating to exhibitions. These discussions help to create a dialogue between future artists, art educators, and the Gallery's professional staff. In turn, the Department of Art and Design helps to train docents for the Gallery. The Department's facilities, such as its Printing Workshop, have been opened to the docents for tours; the Department's teaching staff have given talks to the docents on their work.

Membership in the Gallery costs \$20 per year (\$10 for students), and members receive bimonthly bulletins and invitations to exhibition openings and are entitled to rent and purchase works of art from the Gallery's art rental service.

Volunteers are constantly required to conduct the Gallery's various activities such as the Art Fair, Art Rental, and the Gallery Shop. Most urgently needed, however, are volunteers for the Docent Program to satisfy the growing demand for group tours, especially tours for school children. (Over 10,000 school children from Edmonton and elsewhere visit the Gallery each year.) Orientation for new docents begins in September this year. In



return for weekly training sessions given by the Gallery staff and others during the school year, docents provide tours of current exhibitions. Anyone interested in learning to be a docent is invited to contact the Gallery.

MEDICAL RESEARCH COUNCIL IMMUNOREGULATION GROUP ESTABLISHED

A research group has been established at this University to gain a thorough understanding of the human body's immune system and thereby relate that knowledge to a variety of diseases. The Immunoregulation Group was formalized on 29 August when Dr. Jean de Margerie, acting President of the Medical Research Council of Canada, and H.E. Gunning, President of this University signed an agreement providing terms of reference for the Group's activities. The Medical Research Council is to provide \$2.5 million for the support of research over the next five years; \$600,000 of this amount will be used for the first year of operation.

Erwin Diener, Chairman of the Faculty of Medicine's Immunology Department, will head the Group, and principle researchers include

P.A. Bretscher, formerly of the John Curtin School of Medical Research, Canberra, Australia; T.R. Mossman, recently a Canadian Centennial Fellow at the Institute of Biochemistry, University of Glasgow, Scotland; and T.G. Wegmann, Professor of Immunology at the University of Alberta. Fellow researchers will include Doctors C. Shiozawa, G.A. Carlson, C.A. Walters, and B. Singh.

In explaining the importance of their research, Dr. Diener said that the term "immune reaction" was originally associated in the public mind with the great practical achievements made before 1950 in immunization against infectious diseases. Now, however, it is associated with a much wider concept: the immune system not only functions as a defense against foreign invaders, but plays a key role in maintaining the integrity of the body's own diverse ecosystem. This ecosystem is composed of highly specialized tissues and organs recognized by the immune system as being "self" as opposed to "foreign." Recognition is accomplished through the system's cellular components, the lymphocytes. Recognition as "foreign" triggers an attack by the system; recognition as "self" prevents an assault.

Like any ecosystem, the immune system has an intricate network of elements with specific functions. Functionally different groups of lymphocytes act in concert, each carefully balanced against the others. Disturbances of the balance trigger major maladjustments which may manifest themselves in a number of well-known diseases: allergic reactions, rheumatoid diseases, immuno-deficiency diseases in infants, and auto-immune self-destruction. Evidence points to immunological overtones in a host of other diseases that have long been enigmatic to the medical profession including multiple sclerosis, cancer, various types of intestinal disorders, and certain forms of diabetes.

Dr. Diener describes a thorough understanding of the immunological ecosystem, in particular its regulatory mechanisms, as "the sole foundation upon which clinical immunotherapy can be built." Where the basic information is sufficient, the Immunoregulation Group will undertake applied research; in other areas a great deal of basic research remains to be done. The areas of auto-immunity, organ transplantation, and certain allergic disorders are ready for applied work. But, says Dr. Diener, "the clinical management of cancer by means of immunotherapy still requires major basic research efforts before it can become a reality."

Dr. Diener describes his Group as fully trained in the most advanced aspects of the biosciences closely allied to immunology and he looks forward to it contributing to significant clinical advances of the future.

THAILAND PROJECT III

The University, together with a number of cooperating school systems in the Edmonton area, has completed an agreement with the Ministry of Education in Thailand for the implementation of Thailand Project III. This Project will be administered by the Department of Educational Administration of the Faculty of Education, as were Thailand Projects I and II. The purpose of Project III is to continue the program of training educational personnel for the administration of the comprehensive high schools which have replaced the former two-stream academic and vocational secondary schools in Thailand.

The cooperating school systems in the Edmonton area that have agreed to accept Thai educators for the practicum sector of the program are: Edmonton Public Schools, Edmonton Catholic Schools, County of Strathcona, St. Albert Protestant and Separate Schools, Sherwood Park Catholic Schools, and County of Parkland. Their cooperation in providing the opportunity for intensive, systematic study of comprehensive high schools has been of the greatest value to Projects I and II.

The Thailand Projects were begun at the University in 1966. Project I, which was operative from 1966 to 1972, received 161 Thai administrators, supervisors, counsellors, and academic and industrial arts teachers in a focussed program leading to the Graduate Diploma of the Faculty of Education. Also under Project I, fifteen participants earned the MED in various fields of education. Three of these participants returned to this University to earn PhD degrees in Educational Administration, Secondary Education, and Educational Psychology. A number of other participants in Project I have returned as independent graduate students to obtain master's degrees, chiefly in Educational Administration. Project I was financed by the Canadian International Development Agency. Other facets of Project I included the University selecting and sending advisors to Thailand between 1967 and 1971. H.T. Coutts, Professor Emeritus and former Dean of Education, was Director of Thailand Project I, and L.R. Gue, Professor of Educational Administration, was Training Director. Successive liaison Professors from 1966 to 1971 were Ivor Dent, Leonard Garrett, James Craig, and Ottar Massing.

Project II was initiated in the spring of 1973 by the receipt of a cable from the Ministry of Education in Thailand asking the University to implement a further training project for sixty-four Thai administrators and senior academic teachers from thirty-two schools. After considerable negotiation, agreement was reached between Thailand and the University, and Project II was undertaken and

completed between September, 1975, and June, 1977.

Project II was a short-term, intensive program of four months, composed of three-fifths practicum experiences in Alberta composite high schools, and two-fifths theory instruction in the philosophy and administration of comprehensive secondary schools. Participants worked towards the Certificate of the Faculty of Education. All sixty-four participants in Project II earned the Certificate, some with high standings. Project II was financed entirely by Thai funds, through a loan from the World Bank and current Thai budgets of the Ministry of Education.

Between students under the projects and independent students, over 250 Thai educators have pursued graduate studies at this University in connection with the comprehensive school movement in Thailand.

Project III was initiated by a request from Thailand to the University to train a further one hundred educational administrators from another fifty comprehensive schools. The Director-General of General Education in Thailand visited Edmonton in the spring of 1976 to discuss the terms of the proposed Project. Informal agreement was reached among Thailand, the University, and cooperating school systems that the one hundred participants would receive training between September, 1977, and June, 1979, in the intensive short-term mode established in Project II.

Project III will also be financed entirely by Thai funds through the regular budgets of the Ministry of Education, together with a loan from the World Bank. No Canadian government or non-government aid agencies are involved in any way with the funding or administration of Projects II and III.

The Thailand Projects have been favored on several occasions by visits from senior personnel from Thailand. In 1967, the Minister of Education and his party visited the University and other parts of Alberta for several days. In 1970 Thailand's Ambassador to Canada spent several days on campus. Ruang Chareonchai, Director of the Projects in Thailand, visited the campus briefly in 1967 and 1973 and spent two months as Visiting Professor in the fall of 1970. A further visit of the newly appointed Director-General of General Education and one deputy is expected in October, 1977, for the purpose of familiarizing these senior personnel with the milieu in which the Thai participants study.

Director of Projects II and III is Les Gue, Professor of Educational Administration. Dr. Gue has made a number of trips to Thailand for participant selection, orientation, and follow-up in connection with the Projects. Field Coordinator of Projects II and III is William McCarthy, who holds an MED in

FOLIO

THE UNIVERSITY OF ALBERTA, EDMONTON, ALBERTA

Published every Thursday for the staff and interested persons by the University Publications Office. Copyright 1977.

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434 Athabasca Hall, The University of Alberta
Printed by the Printing Department
Photographic lab work by Technical Services

Telephone 432-4991

Educational Administration from this University and has had extensive experience in Thailand.

The Ministry of Education in Thailand is conducting a thorough evaluation of the results of the various Projects with Alberta, and there is some possibility that the University may become involved in these studies.

CONFERENCE ON LANGUAGE ACQUISITION

Collège Universitaire Saint-Jean will host a conference and workshop on second-language acquisition and related issues from 6 to 11 September. All interested persons are encouraged to attend the conference, for which no registration fee is required. Funds are available for those teachers outside of the city for transportation, lodging, meals, and a substitute teacher. Funds are also available for substitutes for those teachers in Edmonton wishing to attend.

The program for the conference will include the following topics and speakers: "Language and culture as factors in education and learning," with speaker Wallace Lambert of the Department of Psychology at McGill University; "L'évolution de l'éducation française au Manitoba," with speaker Raymond Hebert, Assistant Deputy Minister of Education for Manitoba; "Définition et mesure des objectifs dans l'enseignement des langues secondes," with speaker Jean-Guy Savard, Directeur, Centre International de Recherche sur le Bilinguisme, Université Laval; "Programmes de traduction: traduction 'naïve' et traduction 'professionnelle'," with speaker Brian Harris, Directeur, Ecole de Traducteurs et d'Interprètes, Université d'Ottawa; "French immersion: early, late, or partial?," with speaker Merrill Swain of the Ontario Institute for Studies in Education; and "Acquisition of formal French varieties," with speaker Raymond Mougeon of the Ontario Institute for Studies in Education.

PEOPLE

■ Norbert Berkowitz, Head of the Fuel Sciences Division of the Alberta Research Council and a member of the Energy Resources Conservation Board, has been appointed an associate academic staff member as Professor of Mineral Engineering. He will continue in his position with the Research Council and will conduct research and supervise graduate students in the area of fuels science in the Faculty of Engineering. He will also be lecturing in the area of his specialization.

■ George M. Tuttle, Principal of St. Stephen's College, has been elected Moderator of the United Church of Canada at its twenty-seventh General Council. The term of office is two years.

■ Donald L. Flock, Professor of Petroleum Engineering in the Department of Mineral Engineering, is in Malaysia on assignment with the United Nations Development Program as a technical advisor to PETRONAS, the national petroleum and gas production company. PETRONAS is establishing a Petroleum Research Centre, and Dr. Flock has been asked to assist in the planning of its facilities.

■ Karol Krotki, Professor of Sociology, attended the first meeting of the Consultative Committee charged with the direction of an Exchange and Cooperation Program between Canada and the Centro Latinoamericano de Demografia. The meeting was held on the occasion of the quadrennial congress of the International Union for the Scientific Study of Population in Mexico City in August. The Program is financed by the Canadian International Development Agency with a grant of \$1,700,000, \$350,000 of which is being used by this University.

■ J. Brian McQuitty, Professor of Agricultural Engineering and Associate Dean of the Faculty of Agriculture and Forestry, received the Canadian Sheet Steel Building Institute award for outstanding contributions to agricultural engineering in the field of farm structure.

■ Fenton V. MacHardy, University Professor in the Faculty of Agriculture and Forestry, has been selected by the Agricultural Institute of Canada to be the Klink Lecturer for 1978. The Klink Lecture is intended as an education outreach for AIC members and the general public. Dr. MacHardy will be presenting his address in about ten locations coast-to-coast in Canada in early 1978.

NOTICES

CHILDREN NEEDED FOR MUSIC PROGRAM

The Music Education Laboratory (MELAB) is now recruiting children in grade 7 for membership in its beginning band and string orchestra programs. This is the fifteenth year that this instruction has been offered.

Instruction will be provided by secondary school music student-teachers under the direction of University staff. No musical background is required and the use of an instrument is included in the annual fee of \$30.

There are also bands and orchestras for already experienced performers. Instruments are not normally provided for these children

and a fee of \$20 is charged.

Parents of interested children should telephone 432-0623 for further information or write to Alan Smith, Department of Secondary Education.

NOVELIST COMPETITION

Alberta Culture invites entries to its fourth Search for a new Alberta Novelist Competition. Alberta residents who have not previously had a work of fiction published are eligible. Novels in the adult category ranging from 60,000 to 100,000 words are sought, and there is no restriction on subject matter, theme, or setting. Entries must be typed, double-spaced, and are limited to one manuscript per author. The winner of the Competition will be awarded a prize of \$2,500, and if the entry is suitable, the same author will receive a standard publishing contract from Macmillan Company of Canada. Closing date for entries is 31 December 1977.

Address submissions and enquiries to: Alberta Culture, Film and Literary Arts, Twelfth Floor, CN Tower, 1000 104 Avenue, Edmonton, Alberta T5J 0K5.

GENERAL FACULTIES COUNCIL COMMITTEE VACANCIES

GFC Members on the Senate. Nominations are sought for two members of GFC, to be elected by GFC, to serve on the Senate of the University.

Safe Campus Committee. One member of the academic staff is to be elected by GFC to serve on the Safe Campus Committee. Those who have suggestions for nominations or who are interested in serving on the committees are requested to contact the Secretary of the Nominating Committee, 2-1 University Hall, telephone 432-5715. It would be appreciated if a brief vitae could accompany any nomination.

HATHA YOGA INSTRUCTION

The Keep-fit Yoga Club will offer Hatha yoga instruction for beginners. Classes will be held in Tory Building on Wednesday evenings. Registration is on 7 September. For more information telephone 462-3364 in the evenings.

SINGLES GROUP ON CAMPUS

Persons who may be interested in forming a singles group on campus are invited to call the Office of Student Affairs, telephone 432-4145 during the day or 483-5992 during the evening.

LOST AND FOUND PROPERTY

Campus Security operates a lost and found registry and is required to destroy or otherwise dispose of a large amount of property each year because no claim is ever registered by owners. The University community should become aware of the lost and found service; if you need assistance, telephone 432-5252 or visit the Campus Security offices north of the Education Centre.



The University of Alberta
welcomes

Nominations for Chancellor

To serve four years commencing
1 July 1978

The Chancellor represents the public interest in the University, is elected from the general public by the University Senate, and acts as:

1. Chairman of the Senate
 2. Member of the Board of Governors
 3. Representative of the University at ceremonial occasions
 4. Member of University associations and foundations
- Nominees should be Canadian citizens, and should possess a strong interest in university-community affairs and time adequate to apply to the considerable duties involved. Expenses associated with the Chancellorship are provided.

We encourage nominations or enquiries before 30 September 1977 addressed to:

Chairman, Joint Search Committee
for a Chancellor
c/o The Senate
The University of Alberta
Edmonton, Alberta
T6G 2G8
Telephone (403) 432-2268

INTERNATIONAL STUDENT ORIENTATION

The orientation program designed for newly arrived students from overseas will be held from 30 August to 3 September in 158A Students' Union Building (the Meditation Room). For further information contact the International Student Office, 225 Athabasca Hall or telephone 432-4145.

"ON CAMPUS AND OFF" EVENTS POSTER

The Publications Office will begin printing the "On Campus and Off" Events Poster again this year on 15 September. The poster is printed and distributed as a free service to the University and the community. It covers essentially the same material as the *Folio's* "This Week and Next" column, but it reaches a wider audience. We invite you to send us information about upcoming events such as plays, films, lectures, poetry readings, concerts, art exhibitions, sports events, and so on that are either on or near campus, or that involve or are of interest to University people. The posters are displayed throughout the campus and in various places around the city such as the art gallery, libraries, high schools and colleges, and some shopping centres and similar public places.

In keeping with our printing schedule we ask that you notify us of events approximately one month prior to the event's date. If we can be of any assistance in publicizing your event please call or send a notice to the Publications Office, 434 Athabasca Hall, telephone 432-4991.

THIS WEEK AND NEXT

Listings must reach the Editor by 9 a.m. the Friday prior to publication. Written notification is preferred.

1 SEPTEMBER, THURSDAY

Soviet Lecture

7:30 p.m. "Defence of Soviet political prisoners," with speaker Leonid Plyushch, a Soviet Ukrainian dissident. O'Leary Centre, St. Joseph's Cathedral, 11313 Jasper Avenue.

Cinematheque 16

7:30 p.m. *Take the Money and Run* (United States, 1969). Starring Woody Allen. Downstairs, Edmonton Art Gallery. Admission is \$2 for members and \$2.50 for non-members. Tickets available at the door.

2 SEPTEMBER, FRIDAY

Faculty Club

Downstairs. From the grill: steak sandwiches, hamburgers, hot beef dips, french fries, tossed salad.

Upstairs. Petit gourmet: crab Newberg, strawberry soup, gazpacho soup, rack of lamb,

bouquetiere, apple dumplings Normande, cheese board. \$15 with wines. Reservations required. Entertainment: Executive Branch.

National Film Theatre

7 p.m. *That Darn Cat* (United States, 1965). Starring Haley Mills and Dean Jones. Centennial Library Theatre. Admission is \$1. Families of five or more, \$5.

Cinematheque 16

7:30 p.m. *Take the Money and Run* (United States, 1969). Starring Woody Allen. Downstairs, Edmonton Art Gallery. Admission is \$2 for members and \$2.50 for non-members. Tickets available at the door.

3 SEPTEMBER, SATURDAY

Faculty Club

Downstairs. Barbecue your own: steak, \$5.50, chicken, \$4.25, salad bar, baked potato, french bread, plum cobbler.

Upstairs. Regular dinner menu. Reservations required.

Cinematheque 16

2 p.m. *Gay Divorcee* (United States, 1934). Starring Fred Astaire and Ginger Rogers. Downstairs, Edmonton Art Gallery. Admission is \$2 for members and \$2.50 for non-members. Tickets available at the door.

Silent Film Classics

4 p.m. and 7 p.m. *Son of the Shiek*. Starring Rudolph Valentino. Provincial Museum. Admission is free.

National Film Theatre

8 p.m. *City Lights* (United States, 1931). Directed by Charles Chaplin. Zeidler Hall, Citadel Theatre. Admission is \$2 regular and \$1.50 for students and senior citizens.

6 SEPTEMBER, TUESDAY

Botany Seminar

11 a.m. "The impact of scanning electron microscopy on diatom studies," with speaker F.E. Round, University of Bristol. CW-327 Biological Sciences Building.

National Film Theatre

8 p.m. *College* (United States, 1927). and *The General* (United States, 1926). Both starring Buster Keaton. Centennial Library Theatre. Admission is \$2 regular and \$1.50 for students and senior citizens.

8 SEPTEMBER, THURSDAY

Cinematheque 16

7:30 p.m. *W.R. Mysteries of the Organism* (Yugoslavia, 1971). Directed by Susan Makavejev. Downstairs, Edmonton Art Gallery. Admission is \$2 for members and \$2.50 for non-members. Tickets available at the door.

folio accepts display advertising

Size and rates: the basic unit size is 45 agate lines x 15 picas (3¼" x 2½"). The full page is divided into 9 such units, any combination of which is available at a cost of \$20 per unit. Half pages cost \$100. A professional/business card unit (2½" x 1½") is available at a cost of \$12. Discounts are offered for extended runs; please enquire.

Other specifications: half-tones (100-line screen or less) are acceptable; no color or bleeds. Camera-ready copy is preferred; there is a charge of 15c per word for typesetting, and \$5 per line for design of work which is not camera ready. Deadline for submission is one week prior to publication (Thursday, 4 p.m.) for camera-ready copy; 10 days for all other advertising copy. Positioning is at the discretion of the editor.

For more information please telephone 432-4991 and ask about *Folio* display advertising. Or write to:
Folio Display Advertising
University Publications Office
434-Athabasca Hall
The University of Alberta
Edmonton, Alberta T6G 2E8

9 SEPTEMBER, FRIDAY

Faculty Club

Downstairs. From the grill: steak sandwiches, hamburgers, french fries, hot beef dips, tossed salad.

Upstairs. Lobster, \$12.50. Also regular dinner menu. Reservations required.

Cinematheque 16

7:30 p.m. *The Seventh Seal* (Sweden, 1956). Directed by Ingmar Bergman. English subtitles. Downstairs, Edmonton Art Gallery. Admission is \$2 for members and \$2.50 for non-members. Tickets available at the door.

10 SEPTEMBER, SATURDAY

Faculty Club

Downstairs. Saturday special: chicken cacciatore, rice, zucchini, french pastry, \$5.50.

Upstairs. Lobster, \$12.50. Also regular dinner menu. Reservation required. Entertainment: Cameron and Company.

EXHIBITIONS AND PLAYS

University Art Gallery and Museum

From 6 September. "A closer look," an exhibition of scanning electron microscope photographs by David Scharf. The photographs are the result of Mr. Scharf's technique of producing electron micrographs of living specimens.

University Observatory

Continuing. Group tours of the Observatory may be arranged during the summer months. Admission is free. For further information telephone 432-4201.

Rutherford House

Continuing. The House, 11153 Saskatchewan Drive, is furnished in its original manner. Admission is free. The House will be open daily from 10 a.m. to 8 p.m. until the Labor Day weekend. Tours by appointment, telephone 427-3995 weekends, 427-5708 weekdays.

Provincial Museum

Continuing. "Documentary Heritage," a long-term exhibition displaying valuable manuscripts and documents in the Provincial Archives of Alberta. Archives Gallery.

Students' Union Theatre

Cruel Tears. A country opera by Ken Mitchell and Humphrey and the Dumptrucks. There will be three evening performances at 8 p.m. on 8, 9, and 10 September, and a 2 p.m. matinee on 9 September. Admission is \$5.50. Tickets are available at the HUB Box Office, all Woodward's stores, and Mike's ticket office.

Provincial Museum

From 8 September. "Quilting: traditional to contemporary." An exhibition of patchwork,

applied quilts and contemporary wallhangings from quilters throughout Alberta. Feature Gallery 2.

NON-CREDIT COURSES

MANAGEMENT OF PERSONAL FINANCES

Ways to use money to its best advantage is the subject of a Faculty of Extension course beginning 28 September. The twelve-week course will stress personal and family budgeting, consumer credit, investment, insurance principles and application, will and estate planning, and the establishment of a small business operation.

Class hours will be on Wednesdays from 7 p.m. to 9:30 p.m. The fee is \$65 including materials and is payable in 228 Corbett Hall. The class is limited to thirty-five participants, so early registration is advised. For additional information telephone 432-5066 or 432-5067.

MANAGING INVESTMENTS

Individuals who are interested in learning to manage investments will have an opportunity to do so by registering in an evening course that begins 20 September. Managing Investments will examine the basic fundamentals of the stock market and other investment vehicles through lecture and discussion sessions.

Topics to be discussed in the twelve-week course include types of investments, businesses, securities, mechanics of the market, bonds and preferreds, common stocks, warrants, rights, convertibles, technical approach to the market, speculation, and building a portfolio.

Class hours will be from 7:30 p.m. to 9:30 p.m. on Tuesday evenings. The class will be limited to thirty-five participants. The fee is \$75 including materials and married couples may register for \$60 each and share one set of materials. Registrations are accepted in 228 Corbett Hall. For additional information telephone 432-5067 or 432-5066.

MANAGEMENT DEVELOPMENT WORKSHOP FOR WOMEN

A two-day Management Development Workshop for women has been scheduled for 29 and 30 September.

The workshop will discuss facilitating and restraining forces on women's progress into management using Force Field Analysis, a tool for analyzing a situation that should be changed.

The objectives of the seminar are that participants gain small group experience through solving a case study centering around the problems of a woman "blocked" on her way "up," gain team-building skills and tools useful in all supervisory or management situations, and develop an action plan for career progress.

Early registration is advised because the number of participants will be limited. The fee is \$120 and includes coffee, luncheons, and materials. Registrations are accepted in 228 Corbett Hall. Additional information is available by calling 432-5067 or 432-5066.

STOCKS, BONDS, AND OTHER INVESTMENTS

A ten-week course for women interested in learning about stocks, bonds, and other investments will begin 27 September. The basic fundamentals of the stock market as well as other investment vehicles will be discussed. Topics will include types of investments vehicles, how the stock market functions, how to evaluate securities, and how and when to buy stocks and bonds.

The class is limited to thirty-five participants. The fee is \$60 including materials and coffee. Registrations are accepted in 228 Corbett Hall and additional information is available by calling 432-5067 or 432-5066.

CERTIFICATE PROGRAMS

For several years, the Faculty of Extension has offered evening programs consisting of several courses to those people in business, government, and industry who wish to broaden their outlook and to develop their capacity for increased responsibility.

The following courses will be offered in the fall: Management Development, Personnel Administration, Computers and Business Data Processing, and Employee Benefits Administration. For further information telephone either 432-3027 or 432-5545.



Students' Union Housing Registry

Room 280
Students' Union Building
432-4212

The Students' Union Housing Registry is looking for rooms, suites, apartments, and houses for rent.
A free service to University students and staff.

Applications must be received on or before 16 September.

COMPUTERS AND BUSINESS DATA PROCESSING CERTIFICATE PROGRAM

The Faculty of Extension is accepting applications for registration in the Computers and Business Data Processing Certificate Program.

The Program consists of five courses and is designed to provide students with a thorough understanding of basic computer and computer programming concepts as well as an understanding of the important applications of computers in business and a general appreciation of the organizational and societal effects of computer/communications technology with particular emphasis on business organization and the computer industry. Upon completion of this program, students will be able to set up and program data processing applications using the COBOL and FORTRAN programming languages.

For additional information telephone 432-5545. Applications must be received on or before 8 September.

SURPLUS EQUIPMENT LISTING

The equipment listed below has been declared surplus. If your department is interested in any of this surplus equipment, please get in touch with the declaring department and arrange a satisfactory price. Once you have arrived at a price, make up a purchase requisition showing the account to be charged, and forward the requisition to the Purchasing Department.

All departments are encouraged to dispose of surplus equipment. This disposal is accomplished by completing a surplus equipment declaration form and forwarding it to the Purchasing Department. Proceeds from such disposals are normally credited to the accounts from which the equipment was originally purchased; however, this is not always the case. For further information and details on the disposal of surplus equipment, telephone Bonnie O'Dwyer or Roy Bennett at 432-3208.

1 only Incubator National good condition
1 only Incubator National good condition
Both purchased from Fisher. For further information contact Perry D'Obrenan, Department of Biochemistry, telephone 432-2192.

SCHOLARSHIPS, FELLOWSHIPS, AND AWARDS

S.R. LAYCOCK BURSARY

Donor: Canadian Health Education Society. *Where tenable:* Canada or elsewhere. *Level of study:* Graduate. *Field of study:* Community health education. *Value:* \$500. *Number:* One. *Duration:* One academic year. *Conditions:* The Bursary is offered to Canadian residents. Applications should be submitted with a curriculum vitae and two references. *Closing date:* 30 April of each year. *Further information and application forms should be requested from:* The Chairman, S.R. Laycock Bursary Committee, Canadian Health Education Society, Box 2305, Station D, Ottawa, Ontario K1P 5K0.

RESEARCH GRANTS

Granting Agencies: Application Deadlines

This list of deadline dates for submissions to granting agencies for research funds, exchange programs, and travel grants is published every month in *Folio*. In order to allow sufficient time for processing, all applications should reach the Research Grants and Contracts Office at least ten days before the deadline date. Where other University resources are involved, the time requirement may be much longer than ten days and such applications should therefore be submitted well in advance. An extra copy of the application should be provided for the Research Grants and Contracts Office.

Further information may be obtained by consulting the *Calendar of Granting Agencies for Research Funds, Exchange Programs, and Travel Grants*, which is available in the offices of Deans, Directors of Institutes, Schools, and Centres, and Department Chairmen, or by telephoning the Research Grants and Contracts Office, 432-5360. Note: Although the Calendar is updated on a continuous basis, the following information could be subject to change without notice. If staff members have advanced information on forthcoming changes, the Research Grants and Contracts Office would appreciate being advised. Code: (R) Research funds; (E) Exchange programs; (T) Travel grants.

Calendar source number	Code	Granting agency	Deadline date
(10)	R	Agriculture Canada	
		Extra-mural research grants	1 Oct.
		Operating grants	15 Dec.
(17)	R	Alberta Environmental Research Trust	1 Oct.
(25)	R	American Philosophical Society	7 Oct. 9 Dec. 10 Feb./78 7 Apr./78 1 Aug./78
(27)	R	The Arthritis Society	15 Oct.
(55)	R	Canada Council	15 Oct. 15 Jan. 15 July
(56)	R	Canada Council—The Killam Program	1 Oct.
(62)	T	Canada Council—Leave Fellowship	1 Oct.
(75)	R	Canadian Cystic Fibrosis Foundation	15 Oct.
(85)	R	Canadian Heart Foundation	1 Oct.
(156)	R	Department of National Health and Welfare—Research on Drug Abuse	1 Oct.
		New and Renewal	1 Apr.
(259)	R	Multiple Sclerosis Society of Canada	1 Oct. 1 Apr.
(302)	T	National Research Council of Canada—Nuffield Visiting Lectureships in Science	1 Oct.
(420)	R	United States Department of Health, Education, and Welfare	
		Renewals	1 Oct. 1 Feb. 1 June
		New and Supplemental	1 Nov. 1 Mar. 1 July

POSITIONS VACANT

ACADEMIC POSITIONS

Director

Surgical-Medical Research Institute

The Institute provides excellent medical research facilities. These are primarily for the use of the clinicians in the Faculty of Medicine, their research associates, and residents in the clinical departments, and include facilities for the Director and a small number of full-time medical research workers.

The Director will set and maintain the standards of the Institute. He or she must be willing to facilitate, help, and stimulate research within the Institute and should pursue his or her own research activities so as to maintain good standing and reputation. The Director will be responsible for daily administration of the Institute.

Qualifications. The Director must have a PhD or MD and should have the imagination, sympathy, and tact to cooperate and collaborate fully with other workers in the Institute. He or she should be an established investigator with an international reputation in a field which has clinical application. Administrative experience is essential.

The position will be available commencing 1 July 1978. The successful applicant will be appointed as a full Professor. The salary is negotiable.

Applications should be accompanied by a detailed curriculum vitae, the names of three referees, and should be sent to: The Chairman, Department of Surgery, 11-105 Clinical Sciences Building.

NON-ACADEMIC POSITIONS

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, third floor SUB, telephone 432-5201. Please do not contact the department directly. Positions available as of 26 August.

Clerk Typist II (\$644-\$751, term)—Faculty of Education, Division of Field Experiences
Clerk Typist II (\$644-\$751)—Housing and Food Services; Faculty of Extension
Accounts Clerk I (\$644-\$779)—Office of the Comptroller, Payroll
Clerk Steno II (\$644-\$779)—Ukrainian Studies; Mechanical Engineering; Faculty of Extension; Faculty of Education
Switchboard Operator (\$696-\$843)—Administrative Services
Library Clerk III (\$696-\$843, term)—Health Sciences Audiovisual Education
Senior Clerk (\$696-\$843)—Special Sessions
Clerk Steno III (\$721-\$877)—Biochemistry; Faculty of Extension; Pathology; Physiology; Sociology; Plant Science
Admissions Records Trainee (\$751-\$914)—Office of the Registrar (two positions)
Medical Steno (\$779-\$952)—Pediatrics
Administrative Clerk (\$843-\$1,034)—Faculty of Medicine
Departmental Secretary/Coordinator (\$914-\$1,125)—East European Studies
Computer Assistant I (\$644-\$779)—Computing Services (two positions)
Dental Assistant (\$670-\$811)—Faculty of Dentistry (two positions)
Laboratory Assistant III (\$751-\$914)—Anatomy
Farm Labourer (\$751-\$914, term, trust)—Genetics
Technician I (\$843-\$1,034, trust)—Physiology
Technician I (\$843-\$1,034)—Botany
Audiovisual Technician I (\$843-\$1,034, term)—Romance Languages Labs
Dental Technician I (\$877-\$1,078)—Faculty of Dentistry
Computer Operator I (\$877-\$1,078)—Computing Services

Maintenance Worker I (\$914-\$1,125)—Physical Plant
Programmer/Analyst I (\$952-\$1,173)—Chemical Engineering
Technician II (\$952-\$1,173)—Mineral Engineering
Bacteriology Technologist I (\$952-\$1,173, trust)—Medical Bacteriology
Plant Operator I (\$1,034-\$1,278)—Physical Plant Utilities
Administrative Assistant (\$1,078-\$1,335)—Computing Services
Accounting Assistant (\$1,078-\$1,335)—Office of the Comptroller
Dental Equipment Repair Technician (\$1,078-\$1,335)—Dentistry
Programmer Analyst II (\$1,125-\$1,393, term)—Office of Energy Management
Programmer Analyst II (\$1,125-\$1,393)—Business Administration and Commerce
Programmer Analyst III (\$1,335-\$1,985)—Office of Administrative Systems
Nurse Researcher Coordinator (up to \$22,000 per annum, term, trust)—Health Services Administration

The following is a list of currently available positions in the University of Alberta Libraries. The bulletin board postings in the Library Personnel Office, 516 Cameron Library, should be consulted for further information about position requirements and availability.

Library Clerk II (\$644-\$779)—References
Library Clerk III (\$696-\$843)—Cataloguing (two positions)
Library Assistant I (\$751-\$914)—Acquisitions; Bibliographic Verification; Cataloguing
Personnel Assistant (\$1,078-\$1,335)—Library Personnel

PERSONAL NOTICES

All advertisements must be received by 9 a.m. the Friday prior to publication. Rate is 15 cents per word for the first week and 5 cents per word for subsequent weeks ordered before the next deadline. Minimum charge is \$1. Ads must be paid in advance. We regret that no ads can be taken over the telephone. For order forms or further information, telephone 432-4991.

Accommodations available

House for rent—new home, west end, 1,200 square feet, three bedrooms, two baths, double garage, large garden, drapes, fridge, stove. Fifteen minutes to University. \$510 monthly; more if furnished. 487-1346.
For rent—west end, near Misericordia Hospital. Two- and three-bedroom townhouses with fireplaces, 1½ baths, balconies, two appliances. Furniture lease-purchase contract available. Telephone show suite, 487-6883 or 429-1741.
Attractive four-bedroom, traditionally styled; central-hall plan. Swimming-pool-sized lot (in old Riverbend) has many trees. Many extras. Immediate possession. Offers. Mrs. Anderson, Royal Trust, 435-4869; 434-4460 residence.
Old Strathcona—beautiful three-bedroom house; oak floors; pleasant yard, quiet street. Make an offer. Asking \$65,900. Country & Western Realty, 425-9915, business; 439-5248 residence.
For rent—three-bedroom fully furnished bungalow in Sherwood Park. Recreation room and workshop; garage. \$450 monthly. Available immediately. 464-4582.
For rent—Blue Quill. Executive three-bedroom bungalow; family room, fireplace, carpeted, five appliances, two baths. Singles accepted. Available

1 September. \$575. 432-5653 days; 434-0197.
For rent—from September until December 1977. In Duggan. Three-bedroom bungalow, fully furnished. Convenient bus, ten-minute drive to the University. Telephone 436-0426 evenings.
For sale, rent, or trade—1,400-square-foot three-bedroom bungalow with panoramic seaview of Departure Bay in Nanaimo. .29-acre fully landscaped lot includes guest cottage. 489-5623.
Garneau—For sale, or rent to qualified persons. Two-storey three-bedroom upgraded home on 85 Avenue. Applications and details, 432-7845 between noon and 9 p.m.
Male to share two-bedroom partly furnished apartment. \$150. 432-7197, 5:30 - 6:30 p.m.
For sale—condominium; three bedrooms; low down payment. \$51,900. 462-0054.
For sale—University area. Well-kept three-bedroom semi-bungalow, developed basement, two garages, patio. Near buses. \$64,900. 433-7389.
For rent—large two-bedroom suite with balcony. Available 1 October. 10321 121 Street. Telephone 452-2322.
For rent—three-bedroom duplex. Appliances included. Also two-bedroom suite. South Side. Non-smokers only. 433-0639.
For rent—furnished rooms. Abstainers. 433-0639.
Subletting—two-bedroom apartment, furnished or unfurnished. 111 Street, 87 Avenue. 1 January - 31 August 1978. 432-5678.
For rent—furnished bungalow complete with cat. One-year lease; available 1 November. References; damage deposit. 466-1714 evenings.
For rent—three-bedroom bungalow, finished basement. Large yard. Thirty minutes to University; near bus and all amenities. \$450 monthly. Available 1 October. 478-8239.
For sale—three-bedroom house in Malmo; 1½ baths, rumpus room, bar, and office finished in the basement; double, heated garage. Landscaped with mature trees. Near schools, shopping and bus route. Telephone 435-6722.
For sale—by owner. Two-bedroom bungalow (third bedroom in basement) 1½ baths. Near University, river-valley view. Heated, insulated garage. Possession 1 October. 439-6809. Principals only.
For sale—forty-five acres of prime land located twenty-five miles east (just off divided highway). Five acres of trees with natural building site and drilled well. For information telephone Ronn Bence 465-9602; 922-4082. Century 21 Elliott McGillis Real Estate.
For rent—three winterized cabins on river-front property thirty-five miles northwest of Edmonton. Wood or propane heat. Karen, 967-2086, 2 - 10 p.m.

Accommodation wanted

Physician requires temporary accommodation in room or apartment, starting 6 September. Telephone 437-1322.

Automobiles and accessories

1961 Volvo 544, new front end, B-16 engine good, body good. \$550 or offers. 439-2985.
1973 Pontiac Custom Ventura four-door. Air conditioned, power steering, power brakes, AM/FM radio. \$2,000. Telephone 434-7965.
For sale—Blazer truck (1975). Excellent condition. Offers. 462-0054.
Utility trailer—12 x 6, 4,000-pound capacity. 465-7773 evenings.
1975 Volkswagen Rabbit deluxe, 22,000 miles. Front-wheel drive, radials, four-speed, two-door. Forty miles per gallon. \$3,200 or offers. 433-0857, 5 - 7 p.m.
1970 Chrysler and 1966 Triumph Spitfire. 488-7144.

Goods and services

Plumbing—for estimates on basement bathrooms, repairs, gasfitting, etc., call 465-7079.

Babies—three- to nine-months-old volunteers needed for a short observation of early learning.

Dr. Cornell, 432-5216.

Antiques from England—Victorian furniture, tables, chairs, sideboards, chests, bookcases, stools, dolls, jewelry, clocks, porcelain—Derby, Doulton, Dux, Dresden, Worcester, Oriental. Art nouveau, art deco, commemoratives, carnival glass, pictures, gifts, collectables. Mary Goulden Antiques. Horsehill Hall, from junction 137 Avenue and 50 Street, drive five miles north, then 1½ miles east. 2 - 8 p.m. Thursday through Sunday. 973-3656, 475-8139. Also at corner of 109A Avenue and 135 Street. Thursday, Friday, Saturday, 10 - 5 p.m. 452-0397.

Handyman carpentry service. Telephone John, 434-9709 evenings.

Planning? to have your yard seeded or sodded? To have it tilled and levelled, telephone Slavko's Landscaping (Jerry's) 439-3531. Will also cut your grass when you're away. Good dependable service.

Rampart Construction Ltd. Telephone 474-9721 between 10 a.m. - 3 p.m. for estimates. Major or minor renovations and additions.

Beginners' Hatha Yoga—classes on campus, Wednesday evenings, starting early September. For information write to Box 184, University Post Office.

Interior and exterior design—small or large renovating problem? Perhaps you just need advice. We are counsellors, designers, and builders ready to oblige if you don't wish to tackle a whole project yourself. European or traditional style. 434-0574.

Save twenty-percent—order your birch firewood now. Telephone 465-7773 evenings.

What's new? Your Credit Union has a new office. Call in and see us soon. University of Alberta Employees' Savings and Credit Union, Room 295, Central Academic Building. 11:30 - 4 p.m., Monday - Thursday. Telephone 432-3256.

Susana Singer teaches piano; advanced, elementary students. Preparation for Western Board, Toronto

Conservatory exams. Petrolia area. 434-0574.

Baby articles; upright freezer; washer and dryer, \$40.

Also many household articles. 439-2985.

Professional and experienced drafting of graphs for scientific papers, theses. 435-0495.

Four-year-olds needed (fourth birthday preferably before March, 1978) for Windsor Park Cooperative Nursery School. Schedule: 12 September 1977 to May; Mondays, Wednesday, Fridays, 9 - 12.

Mrs. Decore, 432-2158; 433-7316.

Male-smoker volunteers required for research; lung volumes and smoking. Please contact Dr. York, telephone 432-6212.

Typewriter, chairs and many household items. 1 and 3 September, 1 - 4 p.m. 1108 Millbourne Road East, Edmonton.

Shuffleboard—rocks and score board. \$150 or nearest offer. 432-5528 or 434-5477 after 4:30.

Quality exterior home painting. Licensed, bonded.

Reasonable. 436-2988 or 432-7064.

Landscaping, leveling, sodding, yard maintenance, all Bobcat-type work. Telephone 462-2878.

Older upright piano. Refinished; new ivory. Must be seen to be appreciated. Asking \$700. 467-4806 after five.

Interviewers wanted—full or part-time. Must have vehicle. 432-4191.

Michener Park Day Care has vacancies for children (ages three to six years) of University students. Brand new facilities. Telephone 435-7589 or 436-8398. 104 Galbraith House, Michener Park.

Four-cubic-foot bar fridge, good condition, mahogany finish, \$50; rumpus-room bar, good shelf space, arborite top, \$25. Can be seen at 10824 148 Street. Telephone first. 454-2303.

Assorted rifles—22s, shotgun, .303. Telephone 436-2988.

Day care—one opening available, 12 September in licensed home. Girl, age 2½ - 3½ preferred.

Telephone 433-0983.

Typing—reasonable rates. Mrs. Hlus 484-2629.

Require daily ride—Sturgeon Road, St. Alberta to University. Anytime. \$25 monthly. 459-7649.

Washer, dryer, other household furnishings. 488-7144. Expert typing of theses. Telephone 455-0641.



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